

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**  
**REQUEST FORM FOR CONTINUATION/DIVISIONAL APPLICATION**  
**UNDER 37 C.F.R. §1.53(b)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This is a Request for a

    CONTINUATION  
XX DIVISIONAL

application under 37 C.F.R. §1.53(b), of prior pending application

Serial No. 09/544,263,

Filed: April 6, 2000;

Title: METAL CORE SUBSTRATE PRINTED BOARD ENABLING  
THERMALLY ENHANCED BALL GRID ARRAY (BGA)  
PACKAGES AND METHOD

Prior Application:

Examiner: Rick K. Chang,     Art Unit: 3729

1. XX Attached is a true (certified) copy of the parent application, as originally filed.
2. XX The filing fee is calculated below (claims as filed in the prior application, less any claims canceled by amendment below).

For	No. Filed	Basic	No. Extra	Rate \$	Calculations
Total Claims	6	20	0	\$ 18.00	\$ .00
Indep. Claims	1	3	0	\$ 86.00	\$ .00
[ ] Multiple Dependent Claims				\$290.00	\$
BASIC FEE					\$770.00
TOTAL OF ABOVE CALCULATIONS					\$770.00
[ ] Reduction by 1/2 For Filing By Small Entity					\$
TOTAL FILING FEE					\$770.00

THE COMMISSIONER IS HEREBY AUTHORIZED TO CHARGE ANY ADDITIONAL FEES WHICH MAY BE REQUIRED  
OR CREDIT ANY OVERPAYMENT TO DEPOSIT ACCOUNT NO. 26-0090

3. XX A check in the amount of \$ 770.00 to cover the filing fee is enclosed. If no check is enclosed and a fee is due in connection with this communication or if the check enclosed is insufficient, the Commissioner is authorized to charge any fee or additional fee due in connection with this communication to Deposit Account No. 26-0090.
4. XX Cancel in this application original Claims 1 - 10 of the prior application before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
5.     Amend the specification by inserting before the first line the sentence:
6.     Transfer the drawings from the prior application to this application and abandon said prior application as of the filing date accorded this application. A duplicate copy of this form is enclosed for filing in the prior application file.

16698 U.S. PTO  
022404

22141 U.S. PTO  
10/784813  
022404

7.    New REPLACEMENT SHEETS of the drawings are enclosed.
8. XX The prior application is assigned of record to:  
Unicap Electronics Industrial Corporation.
9. XX The power of attorney in the prior application is to:  
Jim Zegeer, Reg. No. 18,957
- XX a. The power appears in the original papers in the prior application.
- b. Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.
- XX c. Address all future communications to  
Jim Zegeer, Esq.  
Suite 108  
801 North Pitt Street  
Alexandria, VA 22314
- Tel: 703-684-8333  
Fax: 703-549-8411
10. XX A Preliminary Amendment is enclosed. (Claims added by this Amendment have been properly numbered consecutively beginning with the number next following the highest numbered original claim in the prior application.)
11.    Small-entity application.
12. XX Copy of Information Disclosure Statement filed in parent application Serial No. 09/544,263 and including copy of Abstract of JP 8,078,595.
13. XX Also Attached: DECISION ACCORDING STATUS UNDER 37 C.F.R. §1.47(a) of parent application Serial No. 09/544,263 filed April 6, 2000.
14. XX Return stamped receipt card.

Respectfully submitted,



Jim Zegeer, Reg. No. 18,957  
Attorney for Applicants

Suite 108  
801 North Pitt Street  
Alexandria, VA 22314  
Telephone: 703-684-8333

Date: February 24, 2004

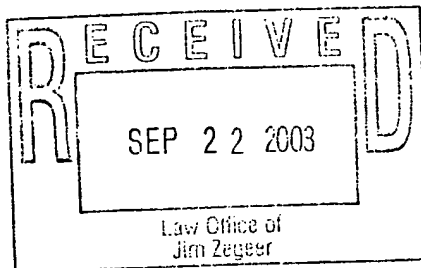
In the event this paper is deemed not timely filed, the applicant hereby petitions for an appropriate extension of time. The fee for this extension may be charged to Deposit Account No. 26-0090 along with any other additional fees which may be required with respect to this paper.



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
P.O. Box 1450  
ALEXANDRIA, VA 22313-1450  
www.uspto.gov

Paper No. 22



Jim Zegeer  
Suite 108  
801 North Pitt Street  
Alexandria VA 22314

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**SEP 16 2003**

**OFFICE OF PETITIONS**

In re Application of  
Jane Lu, Paul Wu, Ray Chen, Scott Chen, and  
Jeff Chang  
Application No. 09/544,263  
Filed: April 6, 2000  
Attorney Docket No.: 2946-Z  
Title: METHOD OF MAKING METAL CORE  
SUBSTRATE PRINTED CIRCUIT WIRING  
BOARD ENABLING THERMALLY  
ENCHANCED BALL GRID ARRY (BGA)  
PACKAGES

DECISION ACCORDING STATUS  
UNDER 37 C.F.R. §1.47(a)

This is in response to the second renewed petition under 37 C.F.R. §1.47(a)<sup>1</sup>, filed July 29, 2003.

The above-identified application was filed on April 6, 2000, identifying Jane Lu, Paul Wu, Ray Chen, Scott Chen, and Jeff Chang as joint inventors. On June 8, 2000, applicant was mailed a "Notice to File Missing Parts of Nonprovisional Application - Filing Date Granted" (Notice).

<sup>1</sup> A grantable petition under 37 C.F.R. §1.47(a) requires:

- (1) the petition fee of \$130;
- (2) a surcharge of either \$65 or \$130 if the petition is not filed at the time of filing the application, as set forth in 37 CFR § 1.16(e);
- (3) a statement of the last known address of the non-signing inventors;
- (4) either
  - a) proof that a copy of the entire application (specification, claims, drawings, and the oath or declaration) was sent or given to the non-signing inventor for review and proof that the non-signing inventor refuses to join in the application or
  - b) proof that the non-signing inventor cannot be found or reached after diligent effort;
- (5) a declaration which complies with 37 CFR §1.63.

requiring an executed oath or declaration in compliance with 37 C.F.R. §1.63, a surcharge for its late filing, and the basic filing fee. This Notice set a two-month period for reply.

In reply, on December 7, 2000, the petitioner submitted a petition, which was dismissed via a decision mailed on May 7, 2003, for failing to meet requirements (4) and (5) above.

On June 13, 2003, petitioner filed a renewed petition, which was dismissed via a decision mailed on June 17, 2003, for failing to address the deficiency pertaining to the fifth requirement above.

With the instant petition, petitioner has corrected this deficiency in the declaration.

The petition is **GRANTED**.

As such, the above-identified application and papers have been reviewed and found in compliance with 37 CFR 1.47(a). This application is hereby accorded Rule 1.47(a) status.

As provided in Rule 1.47(a), this Office will forward notice of this application's filing to the non-signing inventors at the addresses given in the petition. Notice of the filing of this application will also be published in the Official Gazette.

After this decision is mailed, the application will be forwarded to the Office of Patent Publications for further processing into a patent.

Telephone inquiries concerning *this decision* should be directed to the undersigned at (703) 305-0011. Questions pertaining to this application should be directed towards the Office of Patent Publication at (703) 305-8497.



Paul Shanoski  
Attorney  
Office of Petitions  
United States Patent and Trademark Office



United States Patent and Trademark Office

Jane Lu  
14-2F, No. 91  
Shingan St.  
Taipei, Taiwan  
R.O.C.

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**SEP 16 2003**

**OFFICE OF PETITIONS**

In re Application of :  
Jane Lu, Paul Wu, Ray Chen, Scott Chen, and Jeff Chang :  
Application No. 09/544,263 : LETTER  
Filed: April 6, 2000 :  
Attorney Docket No.: 2946-Z :  
Title: METHOD OF MAKING METAL CORE :  
SUBSTRATE PRINTED CIRCUIT WIRING BOARD :  
ENABLING THERMALLY ENHANCED BALL :  
GRID ARRAY (BGA) PACKAGES :

Dear Ms. Lu:

You are named as a joint inventor in the above-identified United States patent application filed under the provisions of 35 U.S.C. 116 (United States Code) and 37 CFR 1.47(a), Rules of Practice in Patent Cases. Should a patent be granted on the application you will be designated therein as a joint inventor.

As a named inventor you are entitled to inspect any paper in the file wrapper of the application, order copies of all or any part thereof (at a prepaid cost per 37 CFR 1.19) or make your position of record in the application. Alternatively, you may arrange to do any of the preceding through a registered patent attorney or agent presenting written authorization from you. If you care to join the application, agent of record (see below) would presumably assist you. Joining in the application would entail the filing of an appropriate oath or declaration by you pursuant to 37 CFR 1.63.

Telephone inquiries regarding this communication should be directed to Petitions Attorney Paul Shanoski at (703) 305-0011. Requests for information regarding your application should be directed to the File Information Unit at (703) 308-2733. Information regarding how to pay for and order a copy of the application, or a specific paper in the application, should be directed to the Certification Division at (703) 308-9726 or 1-800-972-6382 (outside the Washington D.C. area).

Paul Shanoski  
Attorney  
Office of Petitions  
United States Patent and Trademark Office

Jim Zegeer  
Suite 108  
801 North Pitt Street  
Alexandria VA 22314



United States Patent and Trademark Office

Scott Chen  
9F, No. 12  
Tai-Chung 10<sup>th</sup> Street  
Tao-Yuan City, Taiwan  
R.O.C.

In re Application of :  
Jane Lu, Paul Wu, Ray Chen, Scott Chen, and Jeff Chang :  
Application No. 09/544,263 :  
Filed: April 6, 2000 :  
Attorney Docket No.: 2946-Z :  
Title: METHOD OF MAKING METAL CORE :  
SUBSTRATE PRINTED CIRCUIT WIRING BOARD :  
ENABLING THERMALLY ENCHANCED BALL :  
GRID ARRY (BGA) PACKAGES :

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Dear Mr. Chen:

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Attorney  
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United States Patent and Trademark Office

Jim Zegeer  
Suite 108  
801 North Pitt Street  
Alexandria VA 22314



United States Patent and Trademark Office

Jeff Chang  
No. 29 Chang-Chang 5<sup>th</sup> Street  
Yangmei Jen  
Taoyuan, Taiwan 326  
R.O.C.

In re Application of  
Jane Lu, Paul Wu, Ray Chen, Scott Chen, and Jeff Chang  
Application No. 09/544,263  
Filed: April 6, 2000  
Attorney Docket No.: 2946-Z  
Title: METHOD OF MAKING METAL CORE  
SUBSTRATE PRINTED CIRCUIT WIRING BOARD  
ENABLING THERMALLY ENHANCED BALL  
GRID ARRAY (BGA) PACKAGES

LETTER

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Dear Mr. Chang:

You are named as a joint inventor in the above-identified United States patent application filed under the provision of 35 U.S.C. 116 (United States Code) and 37 CFR 1.47(a), Rules of Practice in Patent Cases. Should a patent be granted on the application you will be designated therein as a joint inventor.

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Attorney  
Office of Petitions  
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